

Bellwork: 11/12/12

Write the equation of the line
parallel to $3x + 2y = 18$ going
through the point $(-2, 1)$.

$$3x + 2y = 18$$

$$2y = -3x + 18$$

$$y = -\frac{3}{2}x + 9$$

$$m_{//} = -\frac{3}{2}$$

$$y - 1 = -\frac{3}{2}(x + 2)$$

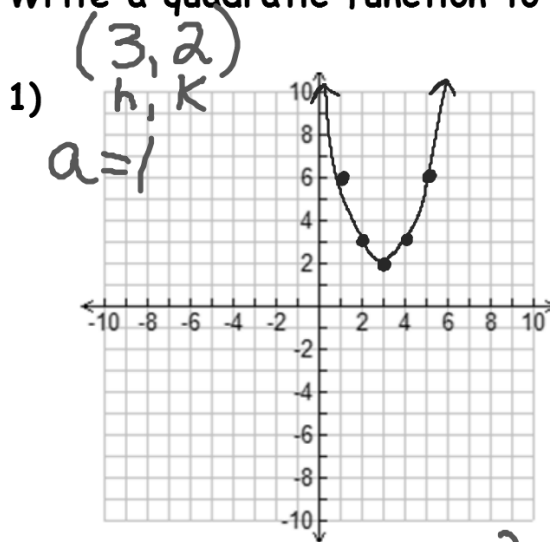
$$y - 1 = -\frac{3}{2}x - 3$$

+1 +1

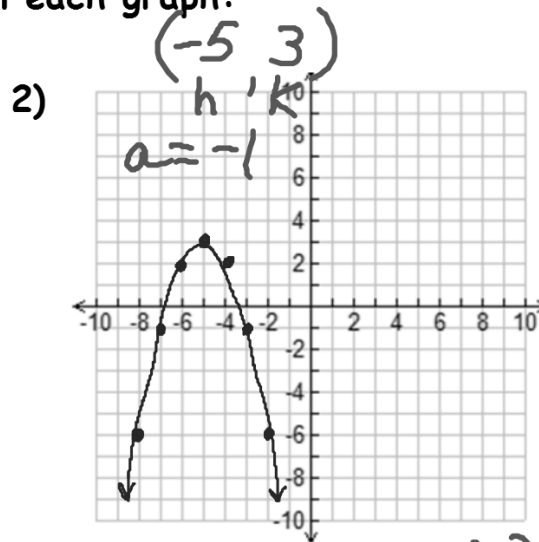
$$\boxed{y = -\frac{3}{2}x - 2}$$

Section 4.1 - Using Vertex Form to Understand Graphs:

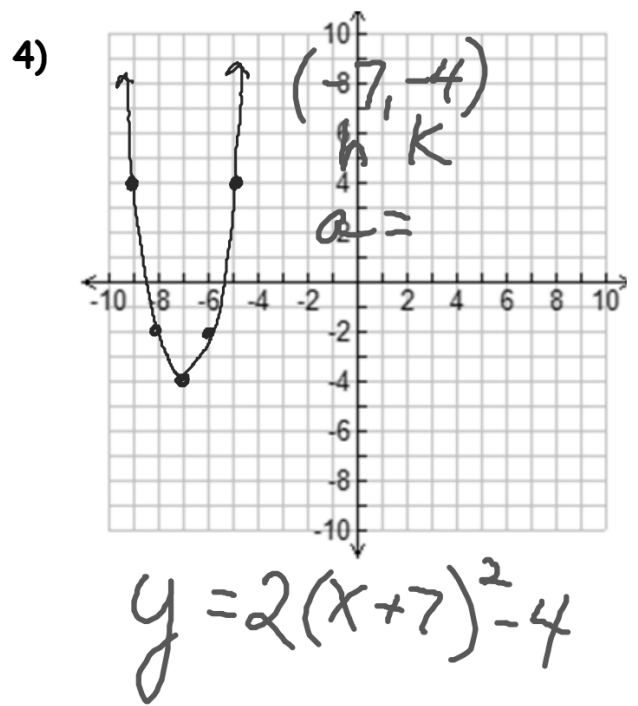
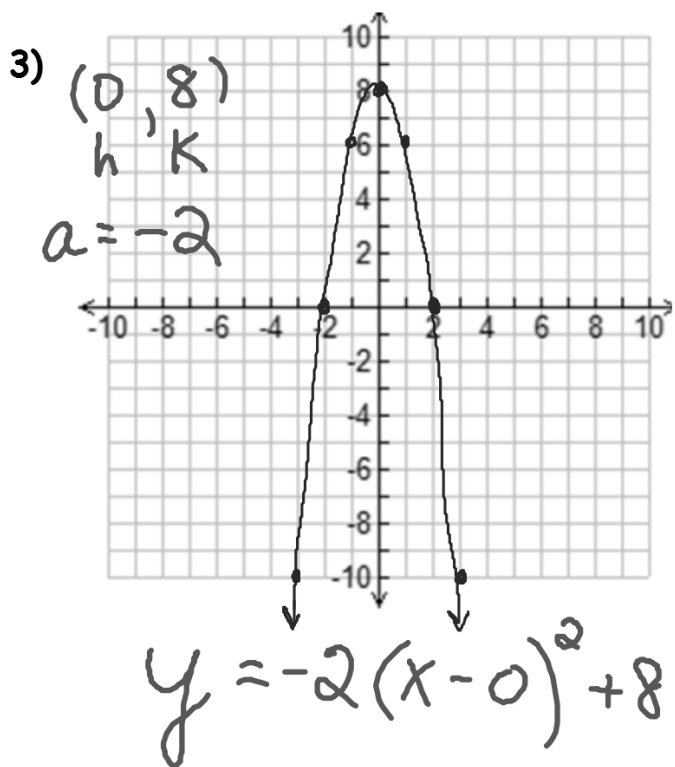
Write a quadratic function to model each graph:



$$y = (x - 3)^2 + 2$$



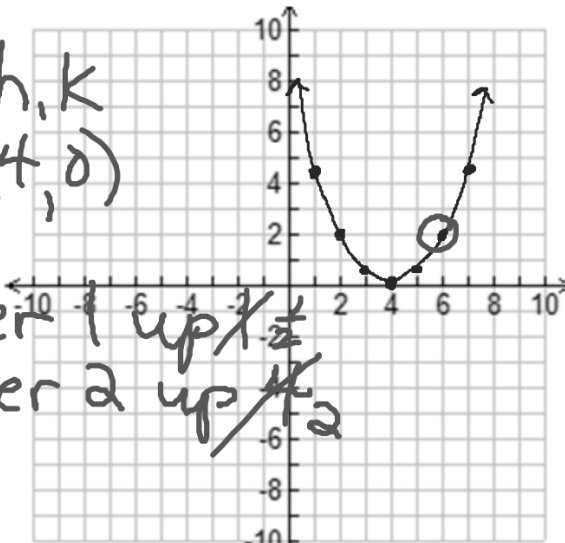
$$y = -1(x + 5)^2 + 3$$



5)

h, k
 $(4, 0)$

over 1 up $\frac{1}{2}$
 over 2 up $\frac{1}{2}$

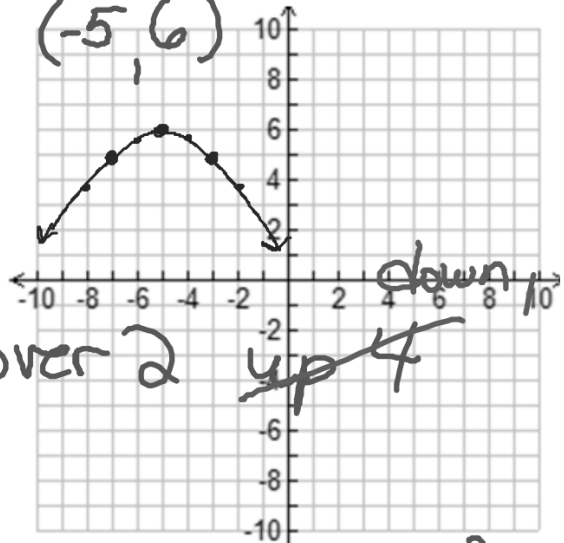


$$y = \frac{1}{2}(x-4)^2 + 0$$

6)

$(-5, 6)$

over 2 up $\frac{1}{4}$



$$y = -\frac{1}{4}(x+5)^2 + 6$$

Homework: 11/12/12

HANDOUT

**find the equation of
each quadratic graph**